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| | Swiften Mary 1449A/PTO | | | | | Complete if Known | ٦ | |
|--|------------------------|-------------|---|----------------------|-----------|-------------------------------|---|----------|
| | INFORMATION DISCLOSURE | | | Application N | lumber | | 10/621,119 | ٦ |
| IN | | | | Filing Date | | | July 16, 2003 | |
| | | | BY APPLICANT(S) | First Named Inventor | | | QUAID, et al. | |
| 31/ | AIE | NENI | BI APPLICANT(S) | Art Unit | | | 3768 | |
| | | | | Examiner Na | ime | | W. JUNG | |
| | | She | eet 1 of 8 | Attorney Doo | ket No. | | MAKO 2 00027-3 | |
| | | | | U.S. P. | ATENT ! | DOCUMI | ENTS | |
| Exan Initia | niner als* | Cite No. | Document No. Number-Kind Code (6 known) | Publication | | | Name of Patentee or Applicant of Cited Document | |
| /E | /EC/ | | US-2006/0109266A1 | 05/25/200 | 6 | Itkowitz | z, et al. | |
| Ī | | AB | US-7,039,866 B1 | 05/02/200 | 6 6 | † | berg, et al. | \neg |
| | | AC | US-2006/0058616A1 | 03/16/200 | 6 | | art, et al. | \neg |
| | | AD | US-7,001,346 B2 | 02/21/200 | | White | , | ㅓ |
| | | AE | US-2006/0033707A1 | 02/16/200 | | | nista, et al. | |
| | | AF | US-6,985,133 B1 | 01/10/200 | | | nista, et al. | ㅓ |
| -+ | | | <u> </u> | | | | | \dashv |
| ┝╌┼ | | AG | US-2005/0222830A1 | 10/06/200 | | Massie | · · · · · · · · · · · · · · · · · · · | |
| ├─┼ | | AH | US-2005/0203384A1 | 09/15/200 | | Sati, et | | |
| ┝ | | Al | US-2005/0197800A1 | 09/08/200 | | Goodwin, et al. Simon, et al. | | |
| igspace | | AJ | US-6,920,347 B2 | 07/19/200 | 5 | | | |
| | / | AK | US-2005/0113677A1 | 05/26/200 | 5 | Davies | es, et al. | |
| L W | | AL | US-2005/0107801A1 | 05/19/2005 | | Davies | s, et al. | _ |
| | | | | FOREIG | PATEN | IT DOC | JMENTS | |
| | miner | Cite | Foreign Patent Doc | ument | Publica | tion Date | Name of Patentee or | т |
| Initi | ials* | No. | Country Code-Number Kind | Code (# known) | MM-D | D-YYYY | Applicant of Cited Document | |
| /F | C/ | AM | WO 2004/069036 A2 | | 08/19/2 | 2004 | Z-KAT, INC. | T |
| <u> </u> | <u> </u> | AN | WO 2004/969040 A2 | | 08/19/2 | 2004 | Z-KAT, INC. | Ī |
| | , | AO | WO 2004/069041 A2 | | 08/19/2 | 2004 | Z-KAT, INC. | T |
| $\vdash A$ | /- | AP | WO 2004/070573 A2 | | 08/19/2 | 2004 | Z-KAT, INC. | T |
| | | A | OTHE | R - NON PA | TENT LI | TERATU | IRE DOCUMENTS | _ |
| | miner | Cite | | | | | ttle of the article (when appropriate), title of the item | Τ |
| Inti | ials* | No. | (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volumeissue number(s), publisher, city and/or country where published | | | | | |
| /E | C/ | AQ | | us of the Co | mputer A | | rs For Assisting in the Execution of Image-Guided Orthopaedic Surgery Meeting, (CAOS/USA 2001), | C |
| | | AR | | | | | puter-Assisted Surgery", Proceedings of the 2002 pation. Washington. DC May 2002, pp 2092-2097 | C |
| | | AS | Abovitz, et al., "The Fut Surgery", CAOS 2001, | | | | earning Information Systems in Computer-Assisted A pp 337-338 | T |
| | , | AT | | | | | OS 2001, July 6-8, 2001, Pittsburgh, PA pp 81-82 | T |
| A | / | AU | Abovitz, "Human-Intera | active Medica | al Roboti | cs", CAO | S 2000, June 15-17 2000, Pittsburgh, PA pp 71-72 | E |

| Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |
|-----------------------|--------------|--------------------|------------|

| | Substitute fa | or form 1449A/PTO | | | | Complete if Known | |
|---|---------------------------|---|-------------------|------------|--|--|----------|
| | | | Application N | lumber | , | 10/621,119 | \dashv |
| INEC | DMATI | ON DISCLOSURE | Filing Date | | | July 16, 2003 | コ |
| | | | First Named | Inventor | | QUAID, et al. | ヿ |
| SIAI | STATEMENT BY APPLICANT(S) | | Art Unit | | | 3768 | |
| <u>.</u> | | | Examiner Na | | | W. JUNG | |
| Sheet 2 of 8 | | Attorney Doo | ket No. | | MAKO 2 00027-3 | | |
| | 4 | | U.S. P | ATENT | DOCUM | ENTS | |
| Examiner Cite Document No. Number-Kind Code (* known) | | Publication MM-DD-1 | | | Name of Patentee or Applicant of Cited Document | | |
| /EC/ BA US- | | US-2005/0093821A1 | 05/05/200 | 5 | Massi | e, et al. | |
| | BB | US-6,853,965 B2 | 02/08/200 | 5 | Massi | e, et al. | |
| | ВС | US-2005/0001831A1 | 01/06/200 | 5 | Shih, e | et al. | |
| | BD | US-6,831,640 B2 | 12/14/2004 | 4 | Shih, e | et al. | |
| | BE | US-2004/0128026A1 | 07/01/2004 | 4 | Harris | , et al. | |
| | BF | US-2004/0127788A1 | 07/01/2004 | 4 | Arata | | |
| | BG | US-6,757,582.B2 | 06/29/2004 | 4 | Brisso | n, et al. | |
| | ВН | US-2004/0115606A1 | 06/17/2004 | | Davies · | | |
| | ВІ | US-2004/0106916A1 | 06/03/2004 | 4 | Quaid, et al. Harris, et al. | | |
| | BJ | US-2004/0102866A1 | 05/27/2004 | 4 | | | |
| 1/ | ВК | US-6,711,432 B1 | 03/23/200 | 4 | Kraus | e, et al. | |
| W | BL | US-6,701,174 B1 | 03/02/2004 | | Kraus | e, et al. | |
| | | | FOREIGN | PATEN | NT DOC | UMENTS | |
| Examine | | Foreign Patent Doc | ument | | ition Date | Name of Patentee or | Т |
| Initials* | No. | Country Code-Number Kind | Code (f known)) | MM-D | D-YYYY | Applicant of Cited Document | |
| /EC/ | ВМ | WO 2004/070580 A2 | | 08/19/ | 2004 | Z-KAT, INC. | T |
| /EC/ | BN | WO 2004/070581 A2 | • | 08/19/ | 2004 | Z-KAT, INC. | T |
| | - 80 | | | | | | I |
| | BP_ | | | | | | |
| | | OTHER | R - NON PAT | ENT LI | TERATI | JRE DOCUMENTS | |
| Examine Initials* | | | ne, journal, seri | al, sympos | ium, catal | ttle of the article (when appropriate), title of the item og, etc.), date, page(s), volumeissue number(s), untry where published | T |
| /EC/ | BQ | Abovitz, "Digital Surge Robot: An Internationa | | | | nd Human-Robot Symbiotic Interaction", Industrial 01, pp. 401-406 | L |
| | BR_ | | | | | | |
| | BS | | | | | | I |
| | BT | | | | | | |
| | BU | | | | | | L |

| | Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |
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| Su | bstitute fo | or form 1449A/PTO | | | <u> </u> | Complete if Known | |
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| INITO: | | AN DISCLOSURE | Filing Date | | | July 16, 2003 | |
| | STATEMENT BY APPLICANT(S) | | | Inventor | | QUAID, et al. | |
| SIAIE | | | | | | 3768 | |
| | | | Examiner Na | me | | W. JUNG | |
| | Sheet 3 of 8 | | | Attorney Docket No. MAKO 2 00027-3 | | | |
| | , | · · · · · · · · · · · · · · · · · · · | U.S. P/ | ATENT | DOCUM | IENTS | |
| Examiner Cite Initials* No. | | Document No. Number-Kind Code (* known) | Publication MM-DD-Y | | | Name of Patentee or Applicant of Cited Document | |
| /EC/ | CA | US-2004/0034283A1 | 02/19/2004 | 4 | Quaid | , 111 | |
| | СВ | US-2004/0034282A1 | 02/19/2004 | 4 | Quaid | , 111 | |
| | СС | US-2004/9934392A1 | 02/19/2004 | 4 | Abovi | tz, et al. | |
| | CD | US-6,692,485 B1 | 02/17/2004 | 4 | Brock | , et al. | |
| | CE | US-2004/0024311A1 | 02/05/2004 | 4 | Quaid | , 111 | |
| | CF | US-6,674,916 B1 | 01/06/2004 | 4 | Dema | n, et al. | |
| | CG | US-6,671,651 B2 | 12/30/2003 | | Goodwin, et al. | | |
| | СН | US-6,552,722 B1 | 04/22/2003 | 3 | Shih, et al. Taylor | | |
| | CI | US-6,547,782 B1 | 04/15/2003 | 3 | | | |
| | CJ | US-6,546,277 B1 | 04/08/2003 | 3 | Franc | k, et al. | |
| 1. | СК | US-6,493,608 B1 | 12/10/2002 | 2 | Nieme | eyer | |
| V | CL | US-6,430,434 B1 | 08/06/2002 | 2 | Mittel | stadt | |
| | | | FOREIGN | PATEN | NT DOC | UMENTS | |
| Examiner | Cite | Foreign Patent Doc | ument | Publica | ition Date | | |
| Initials* | No. | Country Code-Number Kind | | | D-YYYY | Applicant of Cited Document | |
| | CM | | | | | | |
| ····· | CN | | | <u>.</u> | | | |
| | CO | | | | | | |
| | -GP- | | | | | | |
| | | OTHER | R - NON PAT | ENT LI | TERAT | JRE DOCUMENTS | |
| Examiner Initials* | Cite No. | | ne, journal, seria | al, sympos | ium, cata | ttle of the article (when appropriate), title of the item log, etc.), date, page(s), volumeissue number(s), puntry where published | |
| | co | | | | | | |
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| Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |
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| Signature | | Considered | |

| s | ubstitute f | or form 1449A/PTO | | | | Complete if Known | | |
|-----------------------|---------------------------|--|--|-------------|----------------|--|--|--|
| | | | Application N | Number | | 10/621,119 | | |
| INFO | DAGATI | ON DISCLOSURE | Filing Date | | | July 16, 2003 | | |
| | | ON DISCLOSURE | First Named | Inventor | | QUAID, et al. | | |
| SIAIE | STATEMENT BY APPLICANT(S) | | | | | 3768 | | |
| | | | Examiner Na | ame | | W. JUNG | | |
| Sheet 4 of 8 | | Attorney Doo | cket No. | | MAKO 2 00027-3 | | | |
| | | <u>.</u> | U.S. P. | ATENT | DOCUM | IENTS_ | | |
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (* known) | Publication Date MM-DD-YYYY | | | Name of Patentee or Applicant of Cited Document | | |
| /EC/ | /EC/ DA US-6,421,048 B1 | | 07/16/2002 | 2 | Shih, | et al. | | |
| | DB | US-6,417,638 B1 | 07/09/200 | 2 | Guy, e | et al. | | |
| | DC | US-6,405,158 B1 | 06/11/200 | 2 | Massi | e, et al. | | |
| | DD | US-6,405,072 B1 | 06/11/2002 | 2 | Cosm | an | | |
| | DE | US-6,393,340 B2 | 05/21/2002 | 2 | Funda | ı, et al. | | |
| | DF | US-6,385,509 B2 | 05/07/2002 04/23/2002 | | Das, e | et al. | | |
| | DG | US-6,377,839 B1 | | | Kalfas | , et al. | | |
| | DH | US-6,369,834 B1 | 04/09/2002 | 2 | Zilles, et al. | | | |
| | DI | US-6,322,567 B1 | 11/27/200 | 1 | Mittels | stadt, et al. | | |
| | DJ | US-6,233,504 B1 | 05/15/200 ⁻ | 1 | Das, e | et al. | | |
| | DK | US-6,231,526 B1 | 05/15/200 | 1 | Taylor | , et al. | | |
| V | DL | US-6,226,566 B1 | 05/01/200 | 1 | | ı, et al. | | |
| | | | FOREIGN | PATEN | IT DOC | UMENTS | | |
| Examiner | Cite | Foreign Patent Docu | ument | Publica | tion Date | Name of Patentee or T | | |
| Initials* | No. | Country Code-Number Kind | Code (If known)) | MM-DI | D-YYYY | Applicant of Cited Document | | |
| | DM | | | | | | | |
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| | DO | | | | | | | |
| - | -DP- | | | | | | | |
| | | OTHER | R - NON PAT | ENT LIT | reratu | URE DOCUMENTS | | |
| Examiner Initials* | Cite No. | Include name of the (book, magazin | of the author (in CAPITAL LETTERS), tile of the article (when appropriate), title of the item gazine, journal, serial, symposium, catalog, etc.), date, page(s), volumeissue number(s), publisher, city and/or country where published | | | | | |
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| Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |
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| | Su | bstitute f | or form 1449A/PTO | | | | Complete if Known | | |
|-----------------------|--|-------------|--|------------------------|------------|---------------------------------------|---|------------------|--|
| | INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) | | | Application N | Number | | 10/621,119 | - | |
| ۱. | | | | Filing Date | | | July 16, 2003 | | |
| | | | | First Named | Inventor | | QUAID, et al. | | |
| 31 | | | | Art Unit | | | 3768 | | |
| | | | | Examiner Na | me | | W. JUNG | | |
| | Sheet 5 of 8 | | Attorney Doo | ket No. | | MAKO 2 00027-3 | | | |
| | | | | U.S. P | ATENT | DOCUM | NTS | | |
| Examiner Initials* | | Cite No. | Document No. Number-Kind Code (8 known) | Publication MM-DD-Y | | : | Name of Patentee or Applicant of Cited Document | | |
| /EC | | EΑ | US-6,205,411 B1 | 03/20/200 | 1 | DiGio | III, et al. | | |
| | | EB | US-6,111,577 | 08/29/2000 | 0 | Zilles, | t al. | | |
| | | EC | US-6,104,158 | 08/15/2000 | 0 | Jacob | s, et al. | | |
| | | ED | US-6,084,587 | 07/04/2000 | 0 | Tarr, e | al. | | |
| П | | EE | US-6,033,415 | 03/07/2000 | 0 | Mittels | adt, et al. | | |
| | | EF | US-6,006,126 | 12/21/1999 | 9 | Cosman | | | |
| \Box | | EG | US-6,002,859 | 12/14/1999 | | DiGioia, III, et al. Messner, et al. | | | |
| | | EH | US-5,987,960 | | | | | | |
| | | EI | US-5,984,930 | 11/16/1999 | 9 | Maciunas, et al. | | | |
| | | EJ | US-5,980,535 | 11/09/1999 | 9 | Barne | | | |
| | / | EK | US-5,976,156 | 11/02/1999 | 9 | Taylor | | | |
| V | | EL | US-5,950,629 | 09/14/1999 | 9 | Taylor, et al. | | | |
| | | | | FOREIGN | I PATEN | · · · | | | |
| | miner | Cite | Foreign Patent Doc | ument | Publica | tion Date | Name of Patentee or | Т | |
| Initi | ials* | No. | Country Code-Number Kind | Code (f known)) | MM-D | D-YYYY | Applicant of Cited Document | | |
| = | | ΕM | | | | | | | |
| | | EN | | | | | | | |
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| | | -EP- | | | | | | | |
| | | | OTHER | R - NON PAT | ENT LI | TERATI | RE DOCUMENTS | | |
| | niner ials* | Cite No. | Include name of t (book, magazi | ne, journal, seria | al, sympos | ium, catal | e of the article (when appropriate), title of the item g, etc.), date, page(s), volumeissue number(s), http://where.published | Т | |
| - | | EQ | | <u></u> | | | | - | |
| | | ER | | | | | | | |
| | | ES | | | | | | | |
| | | ET | | | | | | | |
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| Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |
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| Su | bstitute fa | or form 1449A/PTO | | | | Complete if Known | ٦ | |
|-----------------------------|---------------------------|---|------------------------|------------|------------------------------|--|-----------|--|
| | | | | lumber | | 10/621,119 | | |
| | | | Filing Date | | | July 16, 2003 | \dashv | |
| | | ON DISCLOSURE | First Named | Inventor | | QUAID, et al. | ٦ | |
| STATE | STATEMENT BY APPLICANT(S) | | | | | 3768 | ٦ | |
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| | Sheet 6 of 8 | | | ket No. | | MAKO 2 00027-3 | ٦ | |
| | | | U.S. P | ATENT | DOCUN | ENTS | | |
| Examiner Cite Initials* No. | | Document No. Number-Kind Code (* triown) | Publication MM-DD-Y | | | Name of Patentee or Applicant of Cited Document | | |
| /EC/ | FA | US-5,898,599 | 04/27/1999 | 9 | Massi | e, et al. | | |
| | FB | US-5,887,121 | 03/23/1999 | 9 | Funda | , et al. | ٦ | |
| | FC | US-5,871,018 | 02/16/1999 | 9 | Delp, | et al. | 7 | |
| ŀ | FD | US-5,831,408 | 11/03/1998 | 8 8 | | us, et al. | ٦ | |
| | FE | US-5,806,518 | 09/15/1998 | B | Mittels | | ┨ | |
| | FF | US-5,799,055 | 08/25/1998 | <u></u> В | Peshkin, et al. | | | |
| | FG | US-5,695,500 | 12/09/1997 | | Taylor | | ٦ | |
| | FH | US-5,694,013 | 12/02/1997 | | Stewart, et al. Delp, et al. | | | |
| | FI | US-5,682,886 | 11/04/1997 | | | | | |
| | FJ | US-5,630,431 | 05/20/1997 | | Taylor | | \exists | |
| 1, | FK | US-5,625,576 | 04/29/1997 | | Massie, et al. | | | |
| W | FL | US-5,587,937 | 12/24/1996 | | Massie, et al. | | _ | |
| | · - | | FOREIGN | | | | ┪ | |
| - | 1 | <u> </u> | FUREIGN | PAIEN | 11 000 | ONENTS | _ | |
| Examiner Initials* | Cite No. | Foreign Patent Doci | | | tion Date | Name of Patentee or Applicant of Cited Document | ┰┃ | |
| | | Country Code-Number Kind | Code (if known)) | IVIIVI-D | D-1111 | • | | |
| | EM | | | | | | | |
| | FN | | | | | | | |
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| | FP | | • | <u> </u> | | | Ц | |
| - | | OTHER | R - NON PAT | ENT LI | TERATI | JRE DOCUMENTS | į | |
| Examiner Initials* | Cite No. | | ne, journal, seria | al, sympos | ium, cata | ttle of the article (when appropriate), title of the item og, etc.), date, page(s), volumeissue number(s), untry where published | _ | |
| | ΕQ | | | | | | ₫ | |
| | FR | | | | | | Ē | |
| | FS | | | | | | | |
| | FT | | | | | | | |
| | PU | | · | | | | ₫ | |

| Examiner /Elmer Chao/ Signature | Date Considered | 08/23/2007 | |
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| | Sub | stitute fo | or form 1449A/PTO | Complete if Known | | | | | | |
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| ١., | | | | Filing Date | | July 16, 2003 | | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) | | | | First Named | Inventor | | QUAID, et al. | | | |
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| ŀ | | ٠ | | Examiner Na | me | | W. JUNG | | | |
| | | She | et 7 of 8 | Attorney Doo | ket No. | | MAKO 2 00027-3 | | | |
| | | | | U.S. P | ATENT | DOCUM | ENTS | | | |
| | miner tials* | Cite No. | Document No. Number-Kind Code (6 known) | Publication MM-DD-Y | | | Name of Patentee or Applicant of Cited Document | | | |
| /E(| C/ | GA | US-5,572,999 | 11/12/1996 | 3 | Funda | , et al. | | | |
| | | GB | US-5,445,166 | 08/29/1995 | 5 | Taylor | | | | |
| | | GC | US-5,408,409 | 04/18/1995 | 5 | Glassi | man, et al. | | | |
| | | GD | US-5,388,480 | 02/14/1995 | 5 | Towns | | | | |
| GE US-5,343,385 | | 08/30/1994 | | Joskowicz, et al. | | | | | | |
| П | GF US-5,299,288 | | 03/29/1994 | | † | man, et al. | | | | |
| | | GG | US-5,236,432 | 5,236,432 08/17/1993 | | Matsen, III, et al. Allen, et al. | | | | |
| | | GH | US-5,230,338 | | | | | | | |
| | | GI | US-5,207,114 | 05/04/1993 | | | ury, Jr., et al. | | | |
| 1 | | GJ | US-5,154,717 | 10/13/1992 | | | | | | |
| | | GK | | 09/01/1992 | | <u> </u> | n, III, et al. | | | |
| $\vdash \mathcal{A}$ | | | US-5,142,930 | † | | Allen, | | | | |
| ' | | GL | US-5,086,401 | 02/04/1992 | 2 | Glassi | man, et al. | | | |
| | | | | FOREIGN | PATEN | NT DOC | UMENTS | | | |
| | miner | Cite | Foreign Patent Docu | ument | Publica | ition Date | Name of Patentee or | | | |
| Init | tials* | No. | Country Code-Number Kind | Code (# known)) | MM-D | D-YYYY | Applicant of Cited Document | | | |
| | | GM | , | | • | | | | | |
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| | miner tials* | Cite No. | | ne, journal, seria | al, sympos | ium, catal | ttle of the article (when appropriate), title of the item og, etc.), date, page(s), volumeissue number(s), untry where published | | | |
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| INFORMATION DISCLOSURE | | | Application Number Filing Date | | | 10/621,119 | | |
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| | | ł | First Named | Inventor | | QUAID, et al. | | |
| SIAIE | MENI | BY APPLICANT(S) | Art Unit | | | 3768 | | |
| | | | Examiner Na | me | | W. JUNG | | |
| | She | et 8 of 8 | Attorney Doo | ket No. | | MAKO 2 00027-3 | | |
| | | | U.S. P | ATENT | DOCUN | MENTS | | |
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (F known) | Publication MM-DD-Y | | | Name of Patentee or Applicant of Cited Document | | |
| /EC/ | НА | US-5,046,375 | 09/10/199 | 1 | Salisb | oury, Jr., et al. | | |
| /EC/ | НВ | US-4,979,949 | 12/25/1990 |) | Matse | en, III, et al. | | |
| /EC/ | Э | US-4,903,536 | 02/27/1990 |) | Salisb | oury, Jr., et al. | | |
| | HD | US- | | | | | | |
| | HE | ₩ 6 | | | <u> </u> | | | |
| | HF | US- | | | | | | |
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| | HK | US- | | | - | | | |
| | HL | US- | | | | | | |
| | | | FOREIGN | PATEN | IT DOC | LIMENTS | | |
| | | | | | | | | |
| Examiner Cite Foreign Patent Document Publication Date Initials* No. MM-DD-YYYY | | Name of Patentee or Applicant of Cited Document | | | | | | |
| | | Country Code-Number Kind | Code (t known)) | WINTE | | | | |
| | <u> </u> | | | | | | | |
| | HN | | | | | | | |
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| | _ | OTHER | R - NON PAT | ENT LIT | TERAT | JRE DOCUMENTS | | |
| Examiner Cite Include name of the author (in CAPITAL LETTERS), tile of the article (when appropriate), title of the iter (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volumeissue number(s), publisher, city and/or country where published | | | | | | log, etc.), date, page(s), volumeissue number(s), | | |
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Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|--|-------------|--|--------------------------------|------------------------------------|-----------------|---|---|
| Sub | stitute | orm 1449A/PTO | | | (| Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) Sheet 1 of 2 | | | Application N | lumber | 10/621,119 | | |
| | | | Filing Date | | July 16, 2003 | | |
| | | | First Named | Inventor | Q | UAID, et al. | |
| | | | Art Unit | | 37 | 768 | |
| | | | Examiner Na | ime | W | /. JUNG | |
| | | | Attorney Doo | ket No. | М | AKO 2 00027-3 | |
| - | | | U.S. P. | ATENT DOCU | MEN | NTS | |
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (1 known) | Publication Date MM-DD-YYYY | | | Name of Patentee or Applicant of Cited Document | |
| /EC/ | AA | US 2004/0167654 A1 | 08/26/ | 2004 | Gri | imm, et al. | |
| /EC/ | AB | US 6,642,686 B1 | 11/04/ | 2003 | Ru | ch | |
| /EC/ | AC | US 5,792,147 | 08/11/ | 1998 | Ev | ans, et al. | |
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| | AE | | | | | | |
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| | | | FOREIGI | N PATENT DO | CUN | MENTS | т |
| Examiner | Cite | Foreign Patent Do | | | | Name of Patentee or | Т |
| Initials* | No. | Country Code-Number Kind Code (8 known) | | MM-DD-YYYY | | Applicant of Cited Document | |
| | AL | | | | | | T |
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| | AL | | | | | | |
| | AM | | | | | | |
| | <u> </u> | OTHE | ER - NON PA | TENT LITERA | TUR | RE DOCUMENTS | |
| Examiner Initials* | Cite No. | Include name o (book, maga | zine, journal, ser | rial, symposium, c | atalog | e of the article (when appropriate), title of the item , etc.), date, page(s), volumeissue number(s), try where published | Т |
| /EC/ | AN | Rosenberg, "Virtual f Tasks", Ph.D. Thesis | ixtures: Pero , Stanford Un | ceptual Overla iversity, Augus | ys E st 199 | nhance Operator Performance in Telepresence 94 | |
| /EC/ | AO | Park, et al., "Virtual Computer-Assisted Ir | Fixtures for ntervention, U | Robotic Card trecht, NL, Oc | iac S t. 200 | Surgery", Proc. Medical Image Computing and 01 | |
| /EC/ | AP | Bettini, et al., "Vision A Micro Scales", Proc. | Assisted Cont 2002 IEEE In | rol For Manipu t'l. Conf. on Ro | lation | n Using Virtual Fixtures: Experiments at Macro and cs and Automation, Washington, DC, May 2002 | |
| /EC/ | AQ | Symposium on Medic Sept. 1994 | cal Robotics a | and Computer | Assi | sisted Kneww Surgery", Proc. of the First Annual isted Surgery, V. 2, Pittsburgh, PA, pp. 258-262, | |
| /EC/ | AR | Cobb, et al., "A Robo Assisted Orthopaedic | otic System for Surgery, Pitt | or TKR Surgei sburgh, PA, p | ry", T p. 71 | hird Annual N.American Program on Computer -74, June 1999 | |
| | AS | | | | | | E |
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| Examiner Signature | /Elmer Chao/ | Date Considered | 08/23/2007 |

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| Sul | ostitute ft | or form 1449A/PTO | | | | Complete if Known | | |
| | | | Application I | Number | | 10/621,119 | | _ |
| INFORMATION DISCLOSURE | | | Filing Date | | | July 16, 2003 | | |
| STATEMENT BY APPLICANT(S) | | | First Named Inventor | | | QUAID, et al. | | |
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| | | | U.S. P | ATENT | DOCUN | IENTS | | |
| Examiner Initials* | Cite No. | Document No. Number-Kind Code ^(7 known) | Publicatio MM-DD- | | | Name of Patentee or Applicant of Cited Document | | |
| | ВА | | | | | | _ | 7 |
| | ВВ | | | | | | | _ |
| | BC | | | | | | | - |
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| | ВН | | | <u> </u> | | | | |
| | ВІ | | | | | | | |
| | | | FOREIGN | N PATE | NT DOC | UMBUTS | | |
| Examiner | Cite | Foreign Patent ood | ument | Publica | ation Date | Name of Patentee or | | т |
| Initials* | No. | Country Code-Number Kind | Code (f known) | | D-YYYY | Applicant of Cited Document | | |
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| | | OTHE | R - NON PAT | FENT LI | TERATI | JRE DOCUMENTS | · | |
| Examiner Initials* | Cite No. | (book, magaz | ine, joumal, seri put | al, sympos blisher, city | sium, catal y and/or co | tile of the article (when appropriate), title of the item log, etc.), date, page(s), volumeissue number(s), puntry where published | | Т |
| /EC/ | BN | pp. 167-177, 1999 | | | | sign Methodology", Industrial Robot, V. 26, No. 3 | | C |
| /EC/ | во | Leeser, et al., "Composition on Robotics Research | and Backdriv | vability". | Proc. of | y: Novel User-Friendly Robot Teach Mode Usin Robotic International/SME Fifth World Conference | g (| Ξ |
| /EC/ | BP | Goswami, et al., "Identifying Robot Parameters Using Partial Pose Information", IEEE Control Systems [Magazine, October 1993 | | | | | | |
| /EC/ | BQ | Bienniel Mechansms C | Conference, E | Baltimore | e, MD 2 | | | |
| /EC/ | BR | Bennett, et al, "Autonoi Passive End-Point Cor | mous Calibra estraints", IEE | tion of S E Trans | ingle-Lo | op Kinematic Chains Formed By Manipulators Wit on Robotics and Automation, V. 7, pp 597-606, 199 | h [| Ē |
| /EC/ | BS | Roche, "Changing the Surgery", Orthopaedic | Way Surged Product New | ons Plan vs, pp. 10 | and Ex 6-18, Ju | ecute Minimally Invasive Unicompartmental Kne ly/August 2006 | e [| |
| | | | | | | | | _ |

| Examiner /Elmer Chao/ Signature /Elmer Chao/ | Date Considered | 08/23/2007 |
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